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marts	ite [®] Optimization C	Opportunity Examples	
Project	Optimization Opportunity	Developed Alternative	Annual Savings
		ital Systems Components	
Witco Petroleum	 Recovery of floating product beneath refinery limited by site access constraints and aquifer conditions 	 Develop and install single caisson/angle well recovery systems to replace multiple vertical wells 	\$350K
Mound DOE	a Low soil oxygen concentrations due to soil saturation, and low soil nitrogen concentrations are limiting biodegradation rates which extends required remediation time associated with landfill leachate.	Use existing dewatering trenches to decrease saturation. Install dual soil vacuum extraction/air injections system beneath landfill using angle drilling technique to enhance biodegradation rates coupled with mass removal by SVE.	\$60K
CBS	Solution weathering and geologic conditions limit capture and mass removal rates of P&T system	Installation of angle drilled wells at strategic locations to intercept conduits of contaminant flow which eliminates the need for 2 wells	\$45K
Olivetti Supplies	Decline in groundwater concentrations and characterization of surface water receptors altered remedial requirements	Perform fate and transport analysis along with human health and environmental risk assessment. Gain regulatory approval for NFA based on risk assessment results.	N/A- Accelerate Closure
	Site Operat	ing System Components	
Aberdeen Proving Ground	 □ Iron fouling of groundwater extraction system □ High pump repair and maintenance costs □ Clogging and intensive maintenance of well discharge lines 	Replace down-hole Clean Environment pumps with surface mounted double diaphragm pumps Replace bubbler level controls with electrical transducers	\$31K
Olivetti Supplies, Inc., Harrisburg, PA	Multiple contamination areas require multiple treatment systems	Upsize treatment system to handle most significant area Manifold multiple areas to single treatment system Develop sequential treatment approach for multiple areas using a single treatment system	\$42K
Loring Air Force Base	Emulsification of recovered product prevents separation by oil water separator.	Install second tank in sump. Install positive displacement pump at grade level. Upsize the oil water separator.	\$24K
SouthDiv NIROP	 Piping configuration requires additional pump, resulting in unnecessary electrical power costs 	Reroute and resize piping to provide for gravity discharge	\$16K









